### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 008998-0015  International application No. PCT/CA2005/00006		FOR FURTHER ACTION	as we	see Form PCT/ISA/220 as well as, where applicable, item 5 below				
		International filing date (day/n 06 January 2005 (06-01-2005		Priority date (day/month/year) 07 January 2004 (07-01-2004)				
Appli ALS	icant TOM CANADA INC. ET A	AL						
	international search report has been ding to Article 18. A copy is being			uthority and is transmitted to the applicant				
This	international search report consist	ts of a total of 3 sheets.						
	[X] It is also accompanied by	a copy of each prior art docume	nt cited in this	report.				
1.	Basis of the report							
a.	With regard to the language, the language in which it was filed, u			asis of the international application in the				
	[ ] The international sear Authority (Rule 23.1(		translation of th	he international application furnished to this				
b.	[ ] With regard to any nucleon No. I.	tide and/or amino acid sequen	ce disclosed in	the international application, see Box				
2.	[ ] Certain claims were foun	d unsearchable (see Box No. I	I).					
3.	[ ] Unity of invention is lack	ing (see Box No. III).						
4.	With regard to the title,							
	[X] the text is approved as sub-	mitted by the applicant.						
	[ ] the text has been establishe	ed by this Authority to read as fo	ollows :					
5.	With regard to the abstract,							
	[X] the text is approved as submitted by the applicant.							
				y as it appears in Box No. IV. The applicant or report, submit comments to this Authority				
6.	With regard to the drawings,							
	a. the figure of the drawings	to be published with the abstrac	et is Figure No	1				
	[X] as suggested by the applicant.							
ļ	[ ] as selected by this a	uthority, because the applicant f	failed to sugge	st a figure.				
	[ ] as selected by this A	Authority, because this figure be	tter characteriz	zes the invention.				
i	b. [ ] none of the figures i	is to be published with the abstra	act.					

#### INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2005/000006

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04L 29/02, IPC7 H04L 5/22, IPC7 H04L 12/40, IPC7 H04L 12/18

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms Delphion: transceiver, encoder, decoder, mux or multiplexer, pre-emphasis, framer, compression, analog, delta-sigma, tdm or time division

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
х	"SLK2701 OC-48/24/12/3 SONET/SDH Multirate Transceiver" Data Sheet,	1, 8-10, 14-17, 22-23, 26
Y	December 2001, Texas Instruments, pp. 1-5.	5-7
P, X	EP 1460794 (Page) 22 September 2004 (2004.09.22), abstract, paragraphs [0004], [0007-0008], [0020], [0034], [0037], [0075-0080], figures 12, 13, 17 and 18.	1-4, 8-10, 22
P, A	and 10.	5-7, 27, 28, 30-32, 35, 36
Y	EP 1107599 A2 (Terayon Communication Systems) 13 June 2001 (2001.06.13), abstract	7
Y	WO03084121 A1 (Short) 9 October 2003 (2003.10.09), abstract	5
Y	EP 1215848 A1 (Suzuki) 19 June 2002 (2002.06.19), abstract	6

#### [ ] Further documents are listed in the continuation of Box C. [X] See patent family annex.

Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

earlier application or patent but published on or after the international filing date "E"

"L" document which may throw doubt on priority claim(s) or which is

cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other

means

document published prior to the international filing date but later than the priority date claimed

be considered novel or cannot be considered to involve an inventive step when the document is taken alone

priority date and not in conflict with the application but cited

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document

later document published after the international filing date or

to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot

is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 February 2005 (16-02-2005)	11 May 2005 (11-05-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - Ist Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9	Authorized officer Stuart Ginn (819) 934-5147
Facsimile No: 001(819)953-2476	

"X"

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2005/000006

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date	
EP1460794	22-09-2004	EP1460794 A2 GB0306602D D0 JP2004297802 A	22-09-2004 30-04-2003 21-10-2004	
		US2004234000 A1	25-11-2004	
EP1107599	13-06-2001	AT216543T T AU711984 B2 AU2210597 A	15-05-2002 28-10-1999 01-10-1997	
		AU6714896 A BR9610132 A CA2230294 A1 DE69620781D D1	19-03-1997 21-12-1999 06-03-1997 23-05-2002	
		DE69620781T T2 EP0858695 A1 EP1107597 A2	28-11-2002 19-08-1998 13-06-2001	
		EP1107598 A2 EP1107599 A2 EP1130918 A2 EP1130919 A2	13-06-2001 13-06-2001 05-09-2001 05-09-2001	
		IL123278 A JP3507080B2 B2 KR274300 B1	10-03-2002 15-03-2004 15-12-2000	
		US5745837 A US5768269 A US5793759 A US5805583 A	28-04-1998 16-06-1998 11-08-1998 08-09-1998	
		US5966376 A US5991308 A US6154456 A	12-10-1999 23-11-1999 28-11-2000	
•		US6307868 B1 US6356555 B1 US6665308 B1	23-10-2001 12-03-2002 16-12-2003	
		US2001001616 A1 US2001024474 A1 US2001046266 A1 US2002015423 A1	24-05-2001 27-09-2001 29-11-2001 07-02-2002	
		US2003156603 A1 WO9708861 A1 WO9734421 A1	21-08-2003 06-03-1997 18-09-1997	
WO03084121	09-10-2003	AU1816700 A AU7882300 A	29-05-2000 06-06-2001	
		AU2003216544 A1 AU2003220990 A1 CA2391564 A1	13-10-2003 08-10-2003 18-05-2000	
		CA2414179 A1 CA2479729 A1	17-05-2001 02-10-2003	
		EP1129542 A1 EP1247274 A1 EP1488567 A2	05-09-2001 09-10-2002 22-12-2004	
		JP2002530009T T JP2003514259T T US6137045 A	10-09-2002 15-04-2003 24-10-2000	
		US6363153 B1 US2002154770 A1 US2002164032 A1	26-03-2002 24-10-2002 07-11-2002	
		WO0028695 A1 WO0135387 A1 WO03081829 A2	18-05-2000 17-05-2001 02-10-2003	
		WO03084121 A1	09-10-2003	
EP1215848	19-06-2002	EP1215848 A1 JP2002185559 A US2002077072 A1	19-06-2002 28-06-2002 20-06-2002	